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Claims

1. Use of at least one penicillin for the production of pharmaceutical for
therapeutic use in autoimmune diseases or other pathological
situations where IFN γ -mediated effects are involved in the
progression of the disease.
2. Use according to claim 1, wherein the penicillin is PenG or PenV.
3. Use of a hapten-modified peptide for the production of a
pharmaceutical for therapeutic use in autoimmune diseases or other
pathological situations where IFN γ -mediated effects are involved in
the progression of the disease
characterized in that it contains a backbone of amino acids wherein
to at least one of these amino acids a penicillin antibiotic is bound.
4. Use of a hapten-modified peptide for the diagnostic determination of
a predisposition for hypersensitivity reactions against penicillins or
parts or derivatives thereof,
characterized in that it contains a backbone of amino acids wherein
on at least one of these amino acids a penicillin antibiotic is bound.
5. Use according to claim 4, wherein PBMC cells are isolated from
patients for whom a predisposition for hypersensitivity reactions is
to be determined, the cells are stimulated in vitro by addition of the
hapten-modified peptide and proliferation of antigen responsive T
cells is measured.
6. Use according to claims 4 or 5, wherein IFN γ and/or IL4 expression
are measured.

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7. Use of a hapten-modified peptide for the desensitization of patients suffering from hypersensitivity reactions against penicillins or parts of derivatives thereof characterized in that it contains a backbone of amino acids wherein on at least one of these amino acids a penicillin antibiotic is bound.
8. Use according to anyone of claims 3 to 7, wherein the penicillin antibiotic is penicillin G, penicillin V or ampicillin.
9. Use according to anyone of claims 3 to 8, wherein the amino acid backbone consists of 8 to 20 amino acids, preferably 10 to 18 amino acids.
10. Use according to anyone of claims 3 to 9, wherein the amino acid backbone contains at least one lysine onto which the antibiotic is bound.
11. Use according to anyone of claims 3 to 10, wherein the antibiotic is bound to amino acids at position 3, 5 or 8 starting from a tyrosine anchor.
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